

# DERRICK LIN

San Francisco, CA | (650) 773-5687 | [derricklin0925@gmail.com](mailto:derricklin0925@gmail.com)  
[linkedin.com/in/derrick-lin-952016249](https://www.linkedin.com/in/derrick-lin-952016249) | [github.com/derry10925](https://github.com/derry10925) | [derry10925.github.io](https://derry10925.github.io)

## EDUCATION

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University of California, San Diego

Sep 2022 - Jun 2026

Bachelor of Science in Computer Engineering and Cognitive Science (Machine Learning & Neural Computation)

**Academic Awards:** Provost Honors | **Relevant Courses:** Data Structures, Algorithms, Systems Programming, Linear Algebra

## WORK EXPERIENCE

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LearnWise AI

Oct 2023 - Present

*Software Engineering Intern*

La Jolla, CA

- Developed and deployed **AWS Lambda** functions, leading to faster server response time
- Implemented **Python** and **botocore** to initiate AWS batch jobs, resulting in a **40% reduction** in manual work through automated data processing tasks
- Designed and developed an **HTTP server** in AWS Lambda for efficient management and manipulation of knowledge base data, thereby **boosting content management efficiency**

## LEADERSHIP EXPERIENCE

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Computer Science and Engineering Society (CSES) at UCSD

Sep 2023 - Present

*Professional Development Chair*

La Jolla, CA

- Organized and led **40+ yearly workshops and social events** held within CSES communities, reaching **2000+ students**
- Created technical workshops, projects, and events within CSES, providing career development support
- Fostered the development of **CSES's outreach program** that exposed computer science to hundreds of underrepresented students

## PROJECTS

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Triton Delivery

Jun 2023 - Present

*Food Delivery App for UCSD Students*

- Created an iOS app using **Swift** and **Firebase** for UCSD students, resulting in a remarkable **600% reduction** in food pickup times (from over 30 minutes to an average of 5 minutes)
- Implemented essential features, including seamless account creation, efficient order number submission, and real-time delivery tracking, significantly **enhancing user experience and convenience**

A Breast Cancer Detector

Jun 2023 - August 2023

*Machine learning-based breast cancer detection system*

- Created a web application for breast cancer detection using **Python** and **Flask**, achieving a remarkable **95% accuracy rate** in predicting tumor malignancy
- Trained a **machine learning model** using publicly available datasets for breast cancer patients, making a significant contribution to early cancer detection
- Implemented **MongoDB** with **PyMongo** for secure storage and retrieval of patient information, ensuring **data security** and supporting informed healthcare decisions

## TECHNICAL SKILLS

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**Languages** | Java, Python, JavaScript, Typescript, C, C++, Go, ARM Assembly, HTML, CSS, Swift, MATLAB  
**Technologies** | React, Rest APIs, Node.js, Flask, FastAPI, PostgreSQL, Next.js, MongoDB, Express, Git, JUnit  
**Software** | AWS, Google Cloud Platform, Heroku, Valgrind, Firebase, Postman